

## CST6 Human

**Description:** CST6 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 142 amino acids (29-149) and having a molecular mass of 15.9 kDa. The CST6 is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-899

For research use only.

**Synonyms:** Cystatin E/M, cystatin 6, Cystatin M, Cystatin-E, Cysteine proteinase inhibitor.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MRPQERMVGE LRDLSPPDPQ  
VQKAAQAAVA SYNMGNSIY YFRDTHIIKA QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH  
VDLTTCPALAA GAQKEKLRCD FEVLVVPWQN SSQLLKHNVC QM.

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

The CST6 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

CST6 belongs to the type 2 cystatin family. Unlike other family members that act as active cysteine protease inhibitors, CST6 restrain the inhibition of cathepsin B but is not active against cathepsin C. CST6 are secretable proteins that influence osteogenesis and bone resorption, regulation of the insulin and hepatocyte growth factor receptors, and the response to systemic inflammation.

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